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DOCKET NO. 392.1681

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Atsushi WATANABE, et al.

Serial No: 09/546,392

Group Art Unit: 2623

Confirmation No. 2369

Filed: April 10, 2000

Examiner: Hesseltine, Ryan J.

For: ROBOT SYSTEM HAVING IMAGE PROCESSING FUNCTION

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**LETTER TO THE EXAMINER SUBMITTING**  
**CORRECTED FORMAL DRAWINGS**

MAY 01 2003

Technology Center 2600

Assistant Commissioner for Patents  
Washington, D.C. 20231

ATTENTION: OFFICIAL DRAFTSPERSON

Sir:

In accordance with the requirement in Paper No(s). 9, mailed January 28, 2003, wherein the Examiner required that corrected formal drawings be filed responsive to the Examiner's requirement therefore in Paper No. 9, applicants herewith submit four (4) sheets of corrected formal drawings for filing in the subject application.

It is respectfully requested that the corrected formal drawings filed herewith be entered in the above-referenced application.

Respectfully submitted,

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Date: 28 April 2003

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FIG.4  
(PRIOR ART)

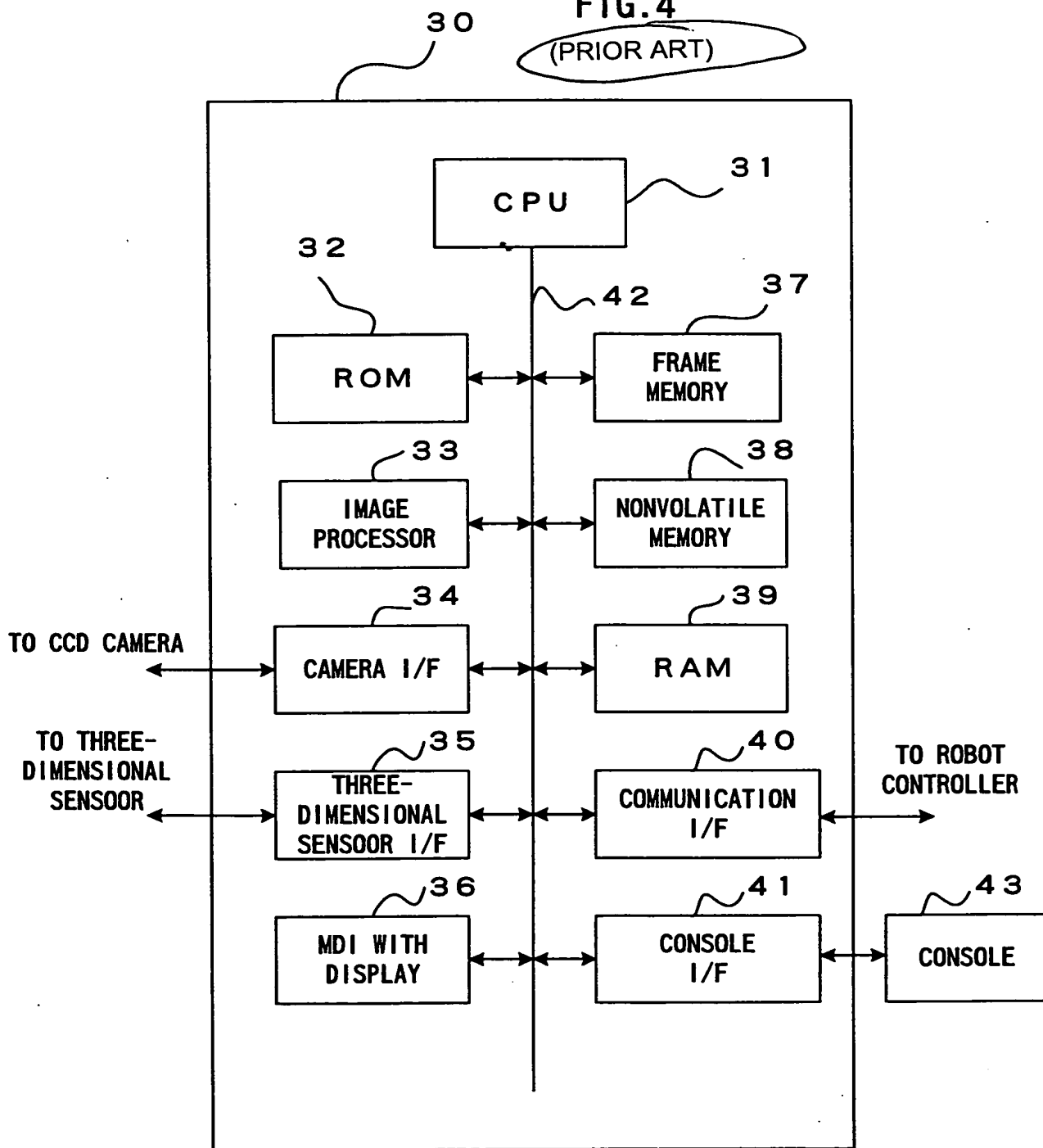
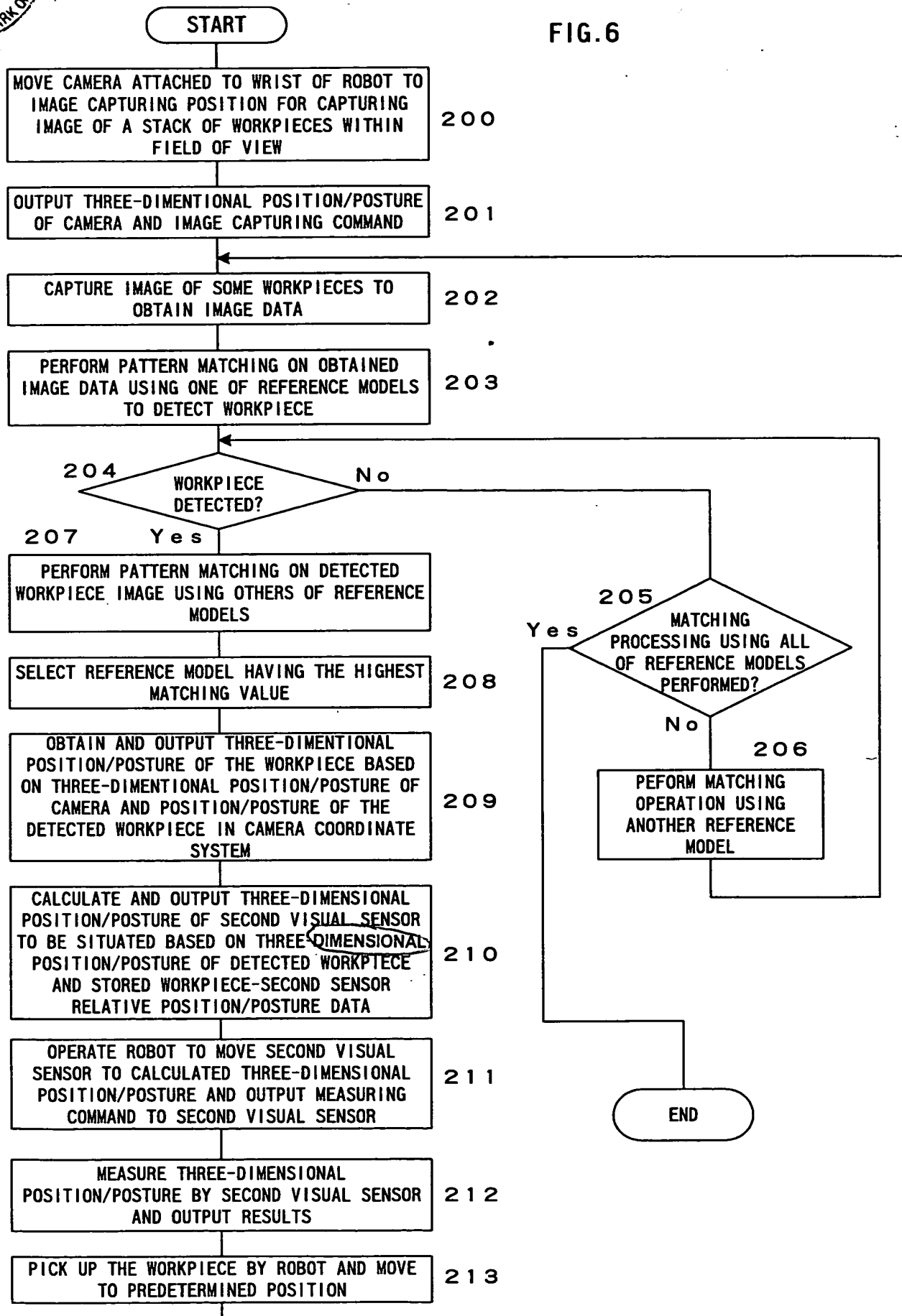




FIG. 6



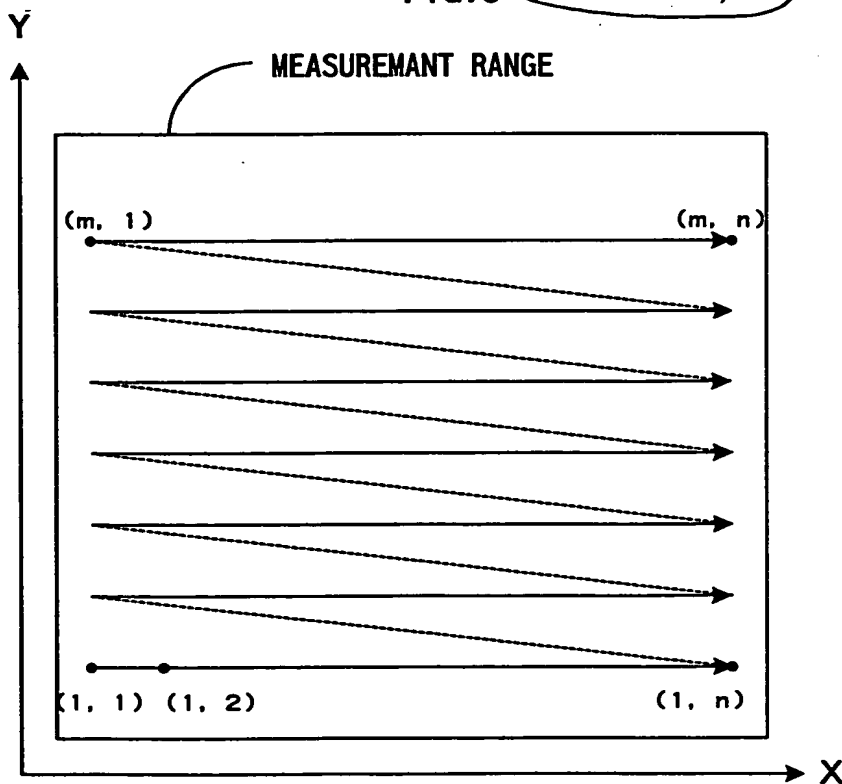
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FIG.7

REFERENCE MODEL NO. (M)	FIRST-SENSOR RELATIVE POSITION/POSTURE [RELATIVE POSITION POSTURE OF WORKPIECE WITH RESPECT TO CAMERA] (X, Y, Z, $\alpha$ , $\beta$ , $\gamma$ ) c	WORKPIECE-ROBOT RELATIVE POSITION/POSTURE [RELATIVE POSITION POSTURE OF SECOND VISUAL SENSOR TO BE SITUATED WITH RESPECT TO WORKPIECE] (X, Y, Z, $\alpha$ , $\beta$ , $\gamma$ ) wk
0	10.0, -20.8, 50.5, 0.0, 0.0, 0.0	35.5, 20.5, 60.9, 0.0, 0.0, 0.0
1	10.0, -20.8, 50.5, 30.0, 0.0, 0.0	35.5, 20.5, 60.9, 0.0, 0.0, 0.0
2	10.0, -20.8, 50.5, 60.0, 0.0, 0.0	35.5, 20.5, 60.9, 0.0, 0.0, 0.0
3	10.0, -20.8, 50.5, 90.0, 0.0, 0.0	35.5, 20.5, 60.9, 0.0, 0.0, 0.0

FIG.8 (PRIOR ART)



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TITLE: ROBOT SYSTEM HAVING IMAGE  
PROCESSING FUNCTION  
INVENTORS: Atsushi WATANABE, et al.  
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FIG. 10 (PRIOR ART)

